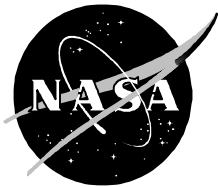


VERSION DESCRIPTION DOCUMENT FOR THE NASA SUPPLY MANAGEMENT SYSTEM (NSMS)

Release 6.4.2

PrISMS Contract

April 2000



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT
FOR THE
NASA SUPPLY MANAGEMENT SYSTEM (NSMS)
RELEASE 6.4.2**

Approved by

Sheila Fogle Consolidation Center Project Manager	Date
---	------

Nikita Zurkin Program Functional Manager	Date
---	------

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

April 2000

1	<u>INTRODUCTION</u>	1
1.1	Identification of the Release	1
1.2	Purpose of the Release	1
1.3	Scope of the Release	1
1.4	Contact Points	1
2	<u>FUNCTIONAL INFORMATION</u>	2
2.1	FUNCTIONAL CHANGES	2
2.2	FUNCTIONAL INTERFACES	3
2.3	CRITICAL ISSUES	3
2.4	AFFECTED DOCUMENTS	3
2.5	APPLICATION SYSTEM ADMINISTRATION	3
3	<u>TECHNICAL INFORMATION</u>	4
3.1	TECHNICAL SYSTEM INTERFACES	4
3.2	DATA DICTIONARY CHANGES	4
3.3	SOFTWARE OBJECT CHANGES	4
3.4	DATABASE ADMINISTRATION	4
3.4.1	Release Dataset Names	4
3.4.2	Inventory of Objects	4
3.4.3	Storage Considerations	4
3.4.4	Installation Procedures	4
3.5	OPERATIONAL PREPARATION	5
4	<u>KNOWN AND OPEN PROBLEMS</u>	6
	APPENDIX A - LIST OF ACRONYMS	A-1
	APPENDIX B - GLOSSARY	B-1
	APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES	C-1
	APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST	D-1

1 INTRODUCTION

1.1 Identification of the Release

This software release is identified as the National Aeronautics and Space Administration (NASA) Supply Management System (NSMS), Version Description Document (VDD), Release 6.4.2.

The release has an effective date of April 12, 2000 and is scheduled for implementation by May 10, 2000. Support of the previous release expires on the implementation date of release 6.4.2.

1.2 Purpose of the Release

This release includes system modifications as specified in Sections 2.0 and 3.0 of this document.

1.3 Scope of the Release

This release provides the functional and technical user of NSMS with changes to the contents and status of the application NSMS, Version 6.4.2, including the following:

- Validation procedures to ensure the reliability of those changes.
- References to other documents affected by this release.
- Detail software installation procedures.

1.4 Contact Points

Questions regarding the functional and/or technical aspects for NSMS, as well as the installation of this release, should be directed to:

Pam Leak at telephone number (256)544-1388 or
by e-mail Pam.Leak@msfc.nasa.gov

Steve Rowell at telephone number (256)544-1452 or
by e-mail Steve.Rowell@msfc.nasa.gov

The fax number is (256)544-1836.

2 FUNCTIONAL INFORMATION

2.1 FUNCTIONAL CHANGES

This release incorporates Requirement Changes (RC) approved by the Configuration Control Board (CCB).

This release includes the necessary modules to incorporate RC 981 approved by the CCB.

THIS RELEASE SHOULD NOT BE INSTALLED IN PRODUCTION IF THERE ARE INVENTORY COUNTS ALREADY IN PROGRESS.

1. ENHANCEMENT - (Program Stock Non-traceable, Traceable Assets, Inventory Counts, Traceable Asset Report) 1620# - 981

When a non-traceable program stock item is received, issued, adjusted, etc., the processes are presenting an additional screen for entry of quantity regardless of how many org./projects exist for that asset.

Add edit to bypass pop-up window when receiving traceable assets without an inspection report number.

Inventory Counts process should reflect/not reflect the asset quantity (traceable asset) depending on user authority.

Enhance the Traceable Asset Report to list only 10 occurrences of technical description and 5 occurrences of part numbers.

ACTION – When an asset has only 1 org./project, do not present an additional screen requiring entry of the quantity. Except in the case of a receipt, do not present the additional screen when only 1 org/proj exists.

When an asset has more than 1 org./project, present the additional screen requiring entry of the quantity. Bypass window when inspection report number is left blank for traceable asset.

Based on the user's authority, display/not display the quantity for a traceable asset when entering the counts during an Inventory.

Limit the number of occurrences to 10 for technical description and 5 for part numbers (NSPRS902).

2.2 FUNCTIONAL INTERFACES

The release has no functional impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

2.3 CRITICAL ISSUES

THIS RELEASE SHOULD NOT BE INSTALLED IN PRODUCTION IF THERE ARE INVENTORY COUNTS ALREADY IN PROGRESS.

2.4 AFFECTED DOCUMENTS

There are no documents affected by this release.

2.5 APPLICATION SYSTEM ADMINISTRATION

The release has no application system administration.

3 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This NSMS release has no technical impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

3.2 DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NSMS Software Release 6.4.2 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of the release.

4 KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A

LIST OF ACRONYMS

ADP	Automated Data Processing
CCB	Configuration Control Board
CCR	Change Control Request
DR	Discrepancy Report
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NSMS	NASA Supply Management System
NSN	National Stock Number
RC	Requirements Change
UOG	User and Operations Guide
VDD	Version Description Document

APPENDIX B

GLOSSARY

This document has no terms to be defined.

APPENDIX C

FUNCTIONAL CHANGE VALIDATION PROCEDURES

1. ENHANCEMENT - (Program Stock Non-traceable, Traceable Assets, Inventory Counts, Traceable Asset Report) 1620# - 981

- When a non-traceable program stock item is received, issued, adjusted, etc., the processes are presenting an additional screen for entry of quantity regardless of how many org./projects exist for that asset.
- Add edit to bypass pop-up window when receiving traceable assets without an inspection report number.
- Inventory Counts process should reflect/not reflect the asset quantity (traceable asset) depending on user authority.
- Enhance the Traceable Asset Report to list only 10 occurrences of technical description and 5 occurrences of part numbers.

ACTION –

- When an asset has only 1 org./project, do not present an additional screen requiring entry of the quantity. Except in the case of a receipt, do not present the additional screen when only 1 org/proj exists. When an asset has more than 1 org./project, present the additional screen requiring entry of the quantity.
- Bypass window when inspection report number is left blank for traceable asset.
- Based on the user's authority, display/not display the quantity for a traceable asset when entering the counts during an Inventory.
- Limit the number of occurrences to 10 for technical description and 5 for part numbers (NSPRS902).

Validation

Program Stock (Non-Traceable)

- Using the Add Change or Delete Catalog Detail (CATADCHG) process, add a non-traceable catalog record. Process to completion.
- Using the Add, Change or Delete Asset (ADCHGAST) process, add a program stock asset for the catalog record created in the previous step. This asset will be known as Asset1.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for Asset1. Process to completion. A screen for entry of organization/project will not be displayed when an asset only has one organization/project.

- Using the Add, Change or Delete Asset (ADCHGAST) process, change the program stock asset (Asset1) by adding another organization/project to the asset.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for Asset1. Process to completion. A screen for entry of organization(s)/project(s) will be displayed when an asset has more than one organization/project. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the receipt not due-in (RCND) transactions were created.
- Using the Create Issue Directive process, issue all the quantity for one of the organizations/projects. Be sure to leave quantity on one of the organizations/projects. A screen for selection of the organization(s)/project(s) will be displayed when an asset has more than one organization/project. Process to completion.
- Using the Create Issue Directive process, issue all the quantity for the remaining organization/project. A screen for entry of organization/project will not be displayed when an asset only has one organization/project. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the issue (ISPR) transactions were created.

Traceable Assets

- Using the Add Change or Delete Catalog Detail (CATADCHG) process, add two traceable catalog records. Add one as serial traceable and the other as lot batch traceable. The serial traceable record will be known as Asset2 and lot batch traceable will be known as Asset3. Process to completion.
- Using the Add, Change or Delete Asset (ADCHGAST) process, add program stock assets for Asset2 and Asset3.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset2 and Asset3). Do not enter an inspection report number but enter a 'Y' in the QS field and press <enter>. A pop-up window should not be displayed when an inspection report number is not entered. When the quality sensitive data screen is displayed, enter an invalid Quality Criteria Code and press <enter>, then press the PF 6 key to cancel the quality sensitive data. Press <enter> in response to the pop-up window to start selection over. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the receipt not due-in (RCND) transactions were created and the invalid Quality Criteria Code was not processed.
- Using the Add, Change or Delete Asset (ADCHGAST) process, change both of the assets (Asset2 and Asset3). Move quantity from one trace record to another trace record. Process to completion.

- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset2 and Asset3) and enter a 'Q' in the QS field. Press <enter> to display an error reflecting the value in the QS is invalid.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset2 and Asset3). Enter an existing inspection report number. A pop-up window should be displayed reflecting the inspection report number exists on another asset.
- Using the Add, Change or Delete Asset (ADCHGAST) process, add store stock assets for Asset2 and Asset3. These assets will be known as Asset4 and Asset5.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset4 and Asset5). Do not enter an inspection report number but enter a 'Y' in the QS field and press <enter>. A pop-up window should not be displayed when an inspection report number is not entered. When the quality sensitive data screen is displayed, enter an invalid Quality Criteria Code and press <enter>, then press the PF 6 key to cancel the quality sensitive data. Press <enter> in response to the pop-up window to start selection over. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the receipt not due-in (RCND) transactions were created and the invalid Quality Criteria Code was not processed.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset4 and Asset5) and enter a 'Q' in the QS field. Press <enter> to display an error reflecting the value in the QS is invalid.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 for both assets (Asset4 and Asset5). Enter an existing inspection report number. A pop-up window should be displayed reflecting the inspection report number exists on another asset.
- Using the Add Change or Delete Catalog Detail (CATADCHG) process, add a traceable and a non-traceable catalog records. The traceable record will be known as Asset6 and non-traceable record will be known as Asset7. Process to completion.
- Using the Add, Change, or Delete Asset (ADCHGAST) process, add a standby stock asset for Asset6 and Asset7 and enter a PS/SS office symbol and project id.
- Using the Receive Due-In Not-Due-In (DINOTDI) process, receive a quantity of 10 against Asset 1 and 2. Process to completion. (Make note of the document numbers.
- Using the Transaction Reversals (REVTRANS) process, reverse the receipts created in the previous step.
- Using the Monitor Transaction (MONTRANS) process, verify the receipts reversal (RCNDR) transaction were created.

- Using the Asset Scan (SCANASET) process, verify the quantity on hand, org/project quantity (should be zero) and the trace data (should be zero).
- Using the Add Change or Delete Catalog Detail (CATADCHG) process, add a serial traceable record. Process to completion.
- Using the Add, Change, or Delete Asset (ADCHGAST) process, add a program stock asset.
- Using the Inventory Adjustment (INVADJST) process, add some quantity to the asset. Enter at least two organizations/projects to the asset. Process to completion.
- Using the Organization/Project Transfer (ORGTRNSF) process, transfer quantity from one of the organizations/projects to a different organization/project for the asset. Process to completion.
- Using the Monitor Transaction (MONTRANS) process, verify the organization/project transfer (ORPT) transactions were created.
- Using the Asset Scan (SCANASET) process, verify the quantities for the organization/project are correct according to the transfers between the organization/project.

Inventory Counts

SPECIAL NOTES:

Use the System Security Maintenance (SECURITY) process to change the access level ('S' for supervisory, 'U' for user) for the Inventory Counts process to reflect the needed level for testing. This test will require the supervisor access level to start with. Then the test will require the access level be changed to user. Remember to re-initialize (INIT) your used-id after changing the access level.

- Using the Add Change or Delete Catalog (CATADCHG) process, add a traceable catalog record and a non-traceable catalog record. The traceable asset will be known as AssetA. The non-traceable asset will be known as AssetB.
- Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock and a program stock asset for AssetA. Make sure you add a bin id to the assets. Add a program stock asset for AssetB with a bin id.
- Using the Inventory Adjustment (INVADJST) process, add quantity to the assets. Add multiple organizations/projects to the program stock asset (AssetA). Add multiple trace keys to both assets (AssetA). Process to completion. Add quantity to AssetB. Process to completion.
- Using the Process Inventory Counts (INVCTSMM) process, build an inventory control record. Enter option 1, unique Run Id and 'FSA' as the Inventory type. Enter the values for all the assets. Process to completion.

- Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Build the Inventory lot (option 3) for the above Run Id. Process to completion.
- Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce the Warehouse Data Collection Report (option 4) for the above Run Id. Process to completion.
- Using the Process Inventory Counts (INVCTSMM) process, execute the Process Warehouse Counts (option 5) for the above Run Id. Enter quantity for each of the assets appearing on the main count screen. Note the quantity on-hand for the assets. Position the cursor on the traceable asset(s) and press <PF9> to process the counts for the traceable assets. Verify the Asset's quantity on-hand matches the Asset quantity (ASSET-QTY). For AssetB, enter a count different than the total asset quantity. Process to completion.
- Using the System Security Maintenance (SECURITY) process, modify the access level to user authority for the Inventory Counts process. Remember to re-initialize (INIT) your used-id before continuing the test.
- Using the Process Inventory Counts Main Menu (INVCTSMM) process, execute the Process Warehouse Counts (option 5) for the above Run Id. Enter quantity for each of the assets appearing on the main count screen. The quantity on-hand for the assets will not be displayed. Position the cursor on the traceable asset(s) and press <PF9> to process the counts for the traceable assets. The Asset quantity (ASSET-QTY) will not be displayed. For AssetB, enter a count different than the total asset quantity. Process to completion.
- Using the Process Inventory Counts Main Menu (INVCTSMM) process, execute the Perform Final Adjustment (option 7) for the above Run Id.
- Using the Monitor Transaction (MONTRANS) process, verify the adjustment (ADJC) transactions.
- Using the Asset Scan (SCANASET) process, verify the asset's quantity, organization(s)/project(s) quantities and the trace quantities.

Traceable Asset Report (NSPRS902)

- Using the Add Change or Delete Catalog (CATADCHG) process, add a serial (trace code of 's') traceable catalog record with at least 12 lines of technical description and at least 6 part numbers. Process to completion.
- Using the Add Change or Delete Catalog (CATADCHG) process, add a lot (trace code of 'l') traceable catalog record with at least 12 lines of technical description and at least 6 part numbers. Process to completion.
- Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock and a program stock asset for each of the catalog records.
- Using the Quality Criteria Code Table (QCCTABLE) process, select a quality criteria code. Add a quality criteria code if none exists. This code will be used in the next step.

- Using the Receive Due-In Not Due-In (DINOTDI) process, receive some quantity for each asset. Mark the QS field with a 'Y', when the quality sensitive screen is presented, enter the same quality criteria code for each asset. Process to completion.
- Using the Traceable Asset Report (TRACS902) process, submit the batch job. Enter a selection code of 2 (Quality Criteria Code) and the quality criteria code that was entered when receiving the assets. Verify the assets added are on the report with ten lines of technical descriptions and six part numbers added in the first step of this validation.

APPENDIX D

INSTALLATION INSTRUCTIONS AND CHECKLIST

Introduction

Release information:

System Name: NSMS
Release Number: 6.4.2
Release Date: April 2000
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NSMS)

Telephone: (256) 544-6673
Email: pam.leak@msfc.nasa.gov
FAX: (256) 544-1836

The following datasets are located on the transient storage DASD volumes under the following data sets names:

- xxMOV.NSMS.PROD.R642.R0400.DOC
- xxMOV.NSMS.PROD.R642.R0400.SRC

Where "xx" is replaced by the appropriate NASA Center designation.

AR - ARC
DF - DFRC
GS - GSFC
HQ - HQ
J5 - JSC
KS - KSC
LA - LaRC
LE - GRC (Glenn)
MS - MSFC
SS - SSC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 10.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Load Natural Error Messages
- 8.0 Perform Release-Specific Procedures
- 9.0 Local JCL Mods
- 10.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NSMS files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Load Source Code

Load the NSMS source modifications from the dataset xxMOV.NSMS.PROD.R642.R0400.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library named NSMS, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by Type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	2
MAPS	3
HELP ROUTINES	0
SUBROUTINES	13
SUBPROGRAMS	0
PROGRAMS	3
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	21

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
------------------	--------------------	-------------	-------------

No modules were added within this release.

Changed Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
NSSRBIN3	Org./Project Maintenance	SUB	981
NSSRBN3B	Org./Project Maintenance (single)	SUB	981
NSSRABIN	Inventory Counts	SUB	981
NSSRBIN6	Bin Reversal	SUB	981
NSPRS902	ISO 9001 Traceable Assets	PGM	981
NSDLS902	ISO 9001 Traceable Assets	LDA	981
NSMPS902	ISO 9001 Traceable Assets	MAP	981
NSPTARDO	Release Due-Out	PGM	981
NSSRADJ5	Quality sensitive data screen	SUB	981
NSSRBINW	Pop-up window	SUB	981
NSSRBIN2	Traceable Asset W/O ORG/PROJ	SUB	981
NSSRBIN5	ORG/PROG W/ Trace Data	SUB	981
NSSRORTR	Org/Proj. Transfer	SUB	981
NSSRACD2	Add, Change, Delete Asset	SUB	981
NSMPADJ8	Add, Change, Delete Asset	MAP	981
NSSRICT1	Inventory Counts-Traceable	SUB	981
NSDLICT1	Inventory Counts-Traceable	LDA	981
NSMPICT1	Inventory Counts-Traceable	MAP	981
NSSRICT4	Inventory Counts-Traceable	SUB	981
NSSRICWC	Inventory Counts-Traceable	SUB	981
NSPUICAJ	Inventory Counts	PGM	981

Deleted Modules

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
------------------	--------------------	-------------	-------------

No modules were deleted within this release.

3.0 Pre-Predict Data Conversion

There is no Pre-Predict data conversion for this release.

4.0 Install Predict

4.1 Data Dictionary Changes

There are no data dictionary changes included in this release.

4.1.1 Inventory of Objects

There are no PREDICT changes included in this release.

4.1.2 Storage Considerations

The changes represented by this release should not affect storage requirements.

4.1.3 Physical File Changes

There are no file changes included in this release.

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NSMS or other named library. It **IS NOT NECESSARY** to catalog the Global Data Area. The NASA Batch standard parameters should be used for the compile.

After all objects are compiled, the NSMS application will run under the NASA On-line standard parameter.

6.0 Post-Predict Data Conversion

There is not post-predict data conversion for this release.

7.0 Load Natural Error Messages

There are no error messages for this release.

8.0 Perform Release-Specific Procedures

There are no release specific procedures for this release.

9.0 Local JCL Mods

There are no local JCL mods for this release.

10.0 Installation Checklist

- | | |
|-----|-----------------------|
| 1.0 | Back Up Existing Data |
| 2.1 | Load Source Code |
| 4.0 | Install Predict |
| 5.0 | Catalog Source Code |